

APPENDIX C (DIPOLE VALIDATION)

Test Laboratory: HCT CO., LTD.
 Ambient Temperature: 21.3 °C
 Test Date: Feb. 25, 2011

DUT: HAC–Dipole 835 MHz; Type: D835V3; Serial:1024

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

DASY4 Configuration:

- Probe: ER3DV6 – SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
- Sensor–Surface: (Fix Surface)
- Electronics: DAE3 Sn446; Calibrated: 2010-09-21
- Phantom: HAC Test Arch; Type: SD HAC P01 BA

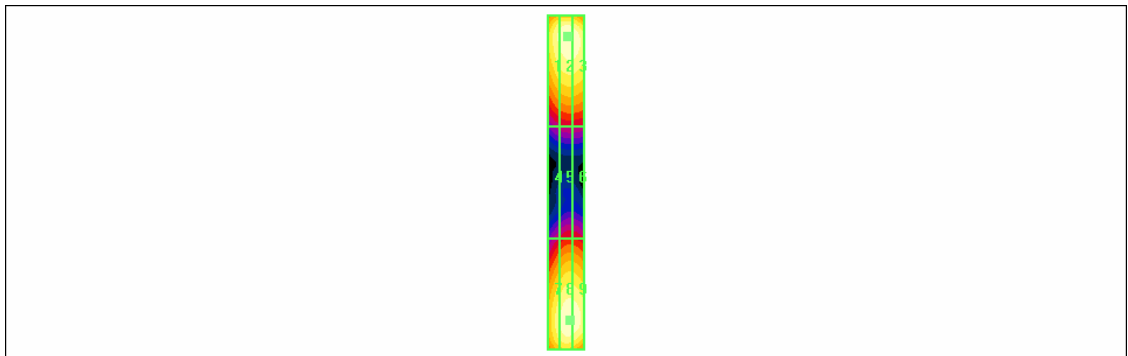
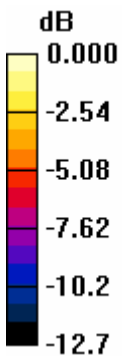
E Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 164.1 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 128.6 V/m; Power Drift = 0.014 dB
Hearing Aid Near–Field Category: M4 (AWF 0 dB)

Peak E–field in V/m

Grid 1	Grid 2	Grid 3
154.2 M4	164.1 M4	161.5 M4
Grid 4	Grid 5	Grid 6
77.0 M4	84.7 M4	84.3 M4
Grid 7	Grid 8	Grid 9
147.7 M4	162.1 M4	161.1 M4

Cursor:

Total = 164.1 V/m
 E Category: M4
 Location: -1, -78.5, 365.8 mm



0 dB = 164.1V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.3 °C
 Test Date Feb. 25, 2011

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1000$ kg/m³
 Phantom section: E Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

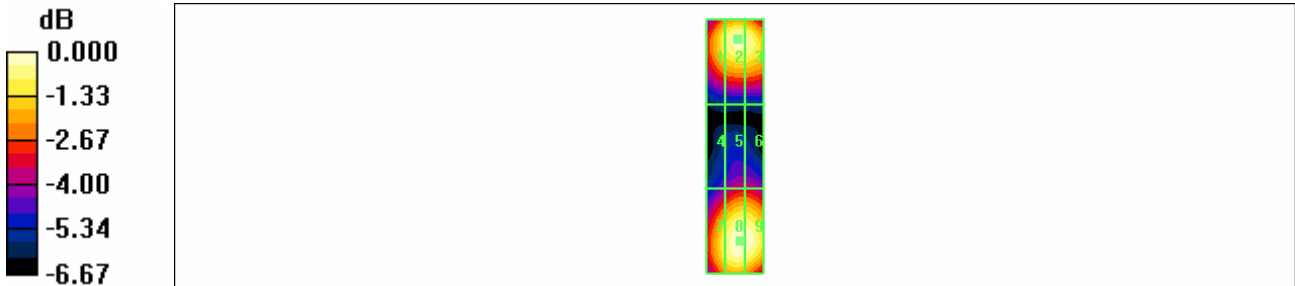
DASY4 Configuration:
 - Probe: ER3DV6 - SN2343; ConvF(1, 1, 1); Calibrated: 2010-05-20
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

E Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 141.6 V/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 167.6 V/m; Power Drift = -0.023 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak E-field in V/m

Grid 1 129.4 M2	Grid 2 138.3 M2	Grid 3 136.6 M2
Grid 4 87.7 M3	Grid 5 95.7 M3	Grid 6 95.6 M3
Grid 7 129.0 M2	Grid 8 141.6 M2	Grid 9 140.8 M2

Cursor:
 Total = 141.6 V/m
 E Category: M2
 Location: -2, 33.5, 365.8 mm



0 dB = 141.6V/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.3 °C
 Test Date Feb. 25, 2011

DUT: HAC–Dipole 835 MHz; Type: D835V3; Serial:1024

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

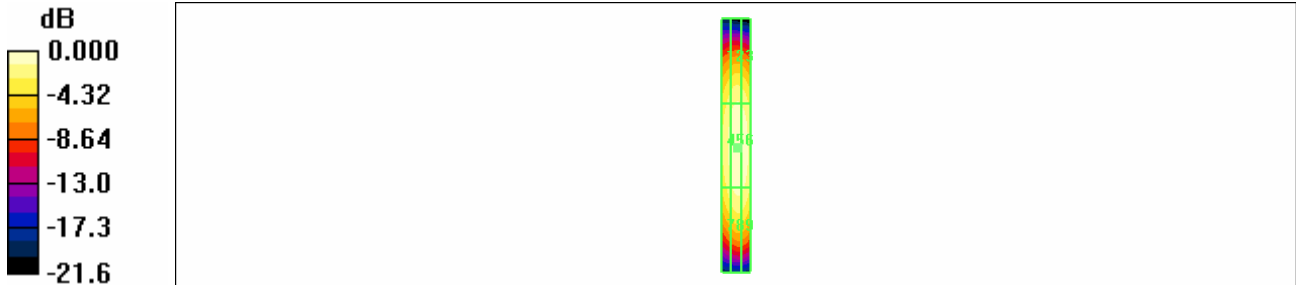
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 835 MHz/Hearing Aid Compatibility Test (41x361x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.451 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.561 A/m; Power Drift = -0.015 dB
Hearing Aid Near-Field Category: M4 (AWF 0 dB)

Peak H-field in A/m

Grid 1	Grid 2	Grid 3
0.359 M4	0.387 M4	0.380 M4
Grid 4	Grid 5	Grid 6
0.411 M4	0.451 M4	0.443 M4
Grid 7	Grid 8	Grid 9
0.367 M4	0.407 M4	0.400 M4

Cursor:
 Total = 0.451 A/m
 H Category: M4
 Location: -1.5, 2, 366.6 mm



0 dB = 0.451A/m

Test Laboratory: HCT CO., LTD.
 Ambient Temperature 21.3 °C
 Test Date Feb. 25, 2011

DUT: HAC Dipole 1880 MHz; Type: CD1880V3; Serial:1019

Communication System: CW; Frequency: 1880 MHz; Duty Cycle: 1:1
 Medium parameters used: $\sigma = 0$ mho/m, $\epsilon_r = 1$; $\rho = 1$ kg/m³
 Phantom section: H Dipole Section ; Measurement SW: DASY4, V4.7 Build 71; Postprocessing SW: SEMCAD, V1.8 Build 184

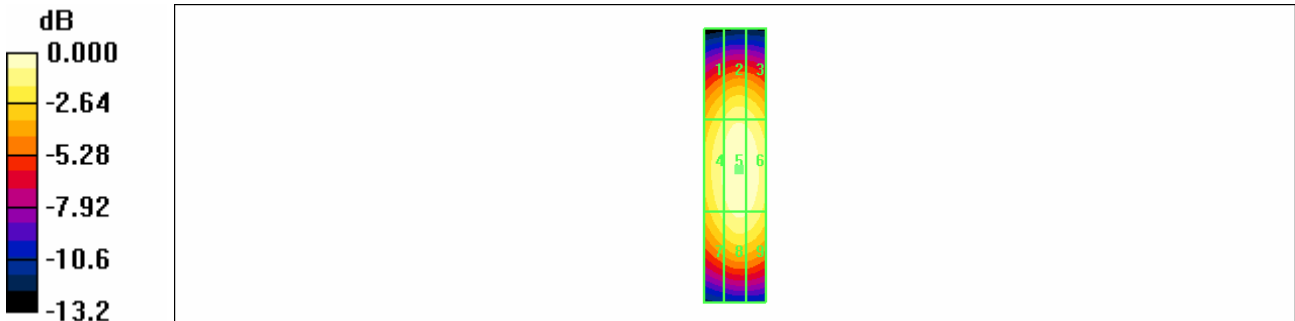
DASY4 Configuration:
 - Probe: H3DV6 - SN6101; ; Calibrated: 2010-05-27
 - Sensor-Surface: (Fix Surface)
 - Electronics: DAE3 Sn446; Calibrated: 2010-09-21
 - Phantom: HAC Test Arch; Type: SD HAC P01 BA

H Scan 10mm above CD 1880 MHz/Hearing Aid Compatibility Test (41x181x1): Measurement grid: dx=5mm, dy=5mm
 Maximum value of peak Total field = 0.471 A/m
 Probe Modulation Factor = 1.00
 Device Reference Point: 0.000, 0.000, 354.7 mm
 Reference Value = 0.561 A/m; Power Drift = 0.040 dB
Hearing Aid Near-Field Category: M2 (AWF 0 dB)

Peak H-field in A/m

Grid 1 0.389 M2	Grid 2 0.420 M2	Grid 3 0.414 M2
Grid 4 0.438 M2	Grid 5 0.471 M2	Grid 6 0.466 M2
Grid 7 0.405 M2	Grid 8 0.439 M2	Grid 9 0.434 M2

Cursor:
 Total = 0.471 A/m
 H Category: M2
 Location: -1.5, 1.5, 366.6 mm



0 dB = 0.471A/m